

# Electro-Voice®

ELECTRO-VOICE, INC.  
BUCHANAN, MICHIGAN



Fig. 1 — Model 649A Microphone  
(Illustration actual size)

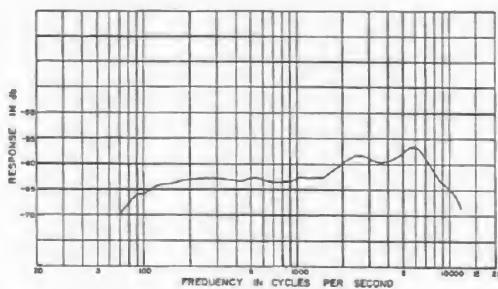


Fig. 2 — Response

## Specifications

### Model 649A Microphone

The Electro-Voice Model 649A Miniature Lavalier Microphone, the smallest lavalier today, is a dynamic omnidirectional type providing smooth response and high output. It features a built-in transformer. Originally created for TV, this small, slim microphone can be hung on a neck cord close to the chest leaving hands of the announcer or performer free for demonstrations . . . or it can be held in the hand or used on a desk stand. It is excellent for audience participation, man-in-the-street interviews, panel shows . . . wherever microphone concealment, individual mobility, or free movement of the hands is desired. No closely associated auxiliary equipment is required.

The microphone is equipped with a pop-proof wire-mesh grille which minimizes wind and breath blasts. Matches all standard low impedances.

The Model 649A features the exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm permits smooth response over a wide frequency range and withstands high humidity, temperature extremes, corrosive effects of salt air, and severe mechanical shocks. It is practically indestructible with normal use.

## SPECIFICATIONS

**Type:** Dynamic

**Frequency Response:** See Fig. 2.

**Impedance:** Matches all low impedance 50 through 250 ohms. Line balanced to ground and phased.

**Output Level:**

Low impedance: -61db\*; EIA (RETMA) Sensitivity rating -155db  
\*0 db equals 1 mw/10 dynes/cm<sup>2</sup>

**Polar Pattern:** Omnidirectional

**Diaphragm:** Electro-Voice Acoustalloy

**Magnetic Circuit:** Employs Alnico V and Armco magnetic iron in a nonwelded circuit.

**Case:** High tensile, lathe-turned aluminum

**Finish:** Metaluster gray.

# Electro-Voice Specifications / Model 649A Microphone

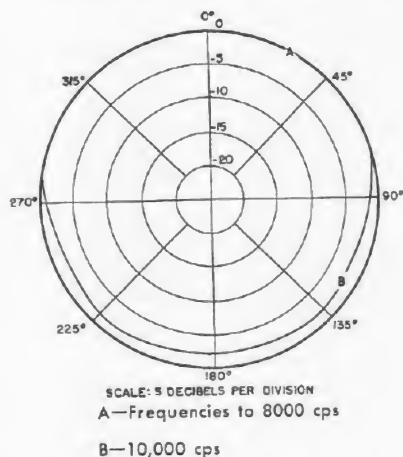


Fig. 3 — Polar Pattern

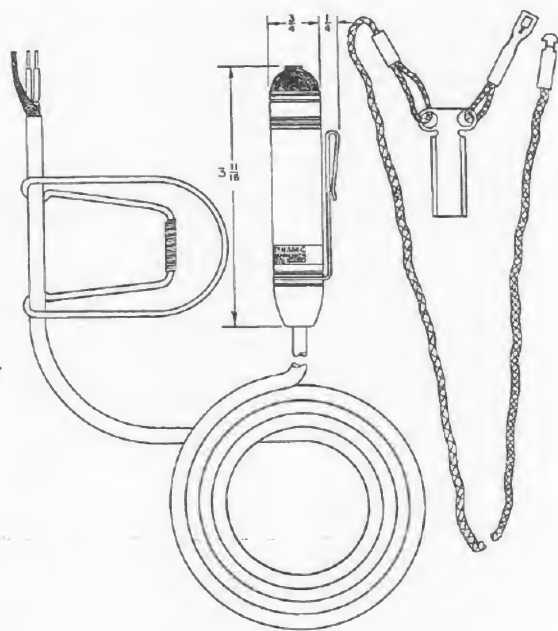


Fig. 4 — Dimensions

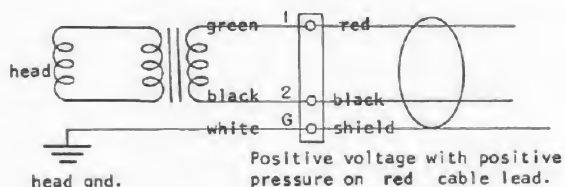


Fig. 5 — Wiring Diagram

**Dimensions:** Diameter:  $\frac{3}{4}$  in., Length 3-11/16 in.

**Net Weight:** 2 oz. less cable

**Cable:** 30-ft. two conductor, shielded brown synthetic rubber jacketed cable.

**Cable Connector:** No connector at Microphone terminals

**Standard Accessories:** Neck cord assembly and belt strain relief clip.

**Warranty:** The Electro-Voice Model 649A Microphone is guaranteed against defects in workmanship and material.

## Architects' and Engineers' Specifications

The microphone shall be the Electro-Voice Model 649A or equivalent. The microphone shall be an omnidirectional, dynamic type with nonmetallic Acoustalloy diaphragm. The microphone shall have a magnetic shield to prevent dust and magnetic particles from reaching the diaphragm. It shall have a built-in transformer. A uniform response from 70 to 10,000 cps shall be obtained. Line shall be balanced to ground and phased.

The output level shall be -61 db with 0 db equalling 1 mw/10 dynes/cm<sup>2</sup>. EIA sensitivity rating shall be -155 db. The magnetic circuit shall be a non-welded circuit and employ Alnico V and Armco magnetic iron.

The case shall be made of high-tensile, lathe-turned aluminum. The microphone shall have a diameter of  $\frac{3}{4}$  in., a length of 3-11/16 in., and a net weight of 2 oz. without cable or neck cord assembly. Finish of the microphone shall be nonreflecting gray. A 30-ft. two conductor, shielded, brown synthetic rubber jacketed cable shall be provided. The microphone shall be supplied with a neck cord and belt strain relief clip.



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